Bundelkhand Institute of Engineering & Technology, <u>Jhansi</u>

Short Term Tender Notice No. BIET- 1/2017

The tender documents for the **Up-gradation of Campus Wi-Fi Network** Tender can be downloaded from the website, www.bietjhs.ac.in or can be obtained from the store & purchase section. A separate demand draft for the cost of tender documents is required along with tender documents.

Tender opening and submission details are given below-

Jhansi.

1.	Name of firm with contact number & email id
_	
2.	Tender cost (Non refundable) is Rs. 1150/-
3.	Tender submission is up to 28.03.2017 at 2:00 PM
4.	Tender opening on 28.03.2017 at 2:30 P.M.
5	EMD Fixed amount Rs. 30,000/-
٦.	LIVID I IACU AIIIOUIII NS. 30,000/-
6.	Opening place of tender is conference room, administrative block BIET

Signature & Seal of Tenderer

Up-gradation of Campus Wi-Fi Network at Bundelkhand Institute of Engineering & Technology, Jhansi

Schedule of Requirement & Price Sheet

SI. No.	Item Description	Qty.	Unit	Unit Rate (Rs.)	Amount (Rs.)
1	Controller based Indoor 802.11ac Access Point PoE enabled as per specifications given.	32	Nos		
2	Managed Layer2 PoE Switch 24 port as per specifications	4	Nos		
3	Managed Layer2 PoE Switch 8 port as per specifications	4	Nos		
4	SM mode LX transceivers	6	Nos		
5	SM Fiber patch cord SC to LC 3mtr Length	6	Nos		
6	UTP CAT6 cable(Box of 305 meters)	4	Nos		
7	UTP CAT 6 Information Outlet with Surface Mount Box with Shutter	32	Nos		
8	24 Port Jack Panel CAT6	1	Nos		
9	UTP CAT6 Patch cord (1 Meter)	64	Nos		
10	9U Rack with PDU and Accessories	2	Nos		
11	Iron Security case with Lock for AP	32	Nos		
12	PoE injectors compatible to APS	10	Nos		
13	Supply of 1" PVC Pipes/ Conduits including required gully, screw	1000	Mtrs		
14	Laying of CAT-6 Cable in PVC Pipes/ Conduits (per meter)	1200	Mtrs		
15	I/O Fixing &Termination	32	Nos		
16	Laying of PVC Pipes/ Conduits	1000	Mtrs		
17	Patch Panel Termination	1	Nos		
18	Rack Fixing and Dressing including Fixing of Jack Panels, Cable Laying and Ferruling etc.	1	Nos		
19	Documentation and Configuration entire network	1	Job		
		Total Amount Rs.			

Note:

- 1 Warranty 5 years.
- 2 Price quoted must be inclusive of all taxes and duties. Nothing will be paid extra.
- 3 All actives should be of same make.
- 4 All passives should be of same make
- 5 OEM authorization to be submit with the bid both for actives and passives or else it will be rejected.
- 6 Bidder must be ISO certified with annual turn over of min. 3 crores. Documents to be submitted.
- 7 Bidder must have min. 3 installation for the quoted make in the last 3 years. Documents to be submitted.
- 8 Bidder must submit copy of PAN, TIN, SERVICE TAX, ESI AND PF certificate.
- 9 Delivery & Installation : 10-12 Weeks.

Up-gradation of Campus Wi-Fi Network at Bundelkhand Institute of Engineering & Technology, Jhansi

Specification of Items and Compliance Statement

SI. No.	Description of goods				
1	Controller based Indoor 802.11ac Access Point PoE enabled				
	Fully comply IEEE802.11a/b/g/n/ac standard, support working in both 2.4G and 5G meanwhile and should be capable of integrating with existing WLAN controller of Huawei AC 6605 or bidders can propose different make Aps with controller for the given specifications.				
	Supports 2x 2 MIMO and provides a maximum rate of 1.16 Gbps per AP				
	Support concurrent user number per AP more than 256				
	Supports access control lists (ACLs) and implements user access control based on the user group policy				
	Interface:1 x 10/100/1000M self-adaptive Ethernet interface (RJ45, PoE) 1 x Management console port (RJ45)				
	Support both local power supply and PoE power supply				
	Support built-in antennas or external antennas.				
	Maximum transmit power for each radio no less than 20dBm and adjust the transmit power with a step of 1 dB				
Support total of SSIDs					
	Support SSID hiding				
	Support (Beamforming)				
	Support STBC,LDPC,MLD,MRC and other technology to enhance signal strength				
	Support 802.11h(DFS) and automatically avoid radar channel				
	Support packet-based power adjustment to reduce power consumption and interference by adjusting AP transmit power to client				
	Operating temperature :-10~50°C				
	Operating humidity :5%~95% (non-condensing) Rating IP41 Support service holding function when CAPWAP link down, new users can also access the network				
	Support authentication based on MAC,,Portal,802.1X,PSK,and fixed mode with MAC + Portal				
	Support WEP(WEP64/WEP128),WPA/WPA2,TKIP,CCMP,WAPI				
	Support security of Local Forwarding. AP supports DHCP Snooping, DAI (Dynamic ARP Inspection), IPSG (IP Source Guard) bogus DHCP server attack defense in local forwarding mode				

detection, attack detection, STA/AP blacklist and white list. Support load balancing based on user number and data traffic							
	Support 5G preference access in which users access network by 5G radio						
	Support 3G preference access in which users access network by 5G radio Support radio link closed when CAPWAP break down						
	Provide WIFI alliance certification						
2	Managed Layer2 PoE Switch 24 port						
	The switch shall have 24 RJ-45 auto-negotiating 10/100/1000 PoE ports						
The switch shall have 4 1000 BASE-X SFP port in addition to above							
	The equipment shall support IEEE 802.3af and 802.3at						
The equipment must support mini USB							
	Shall support 1000/10000 Base-SX, LX, and LX Bi- directional SFP transceivers						
	The proposed equipment shall support high switching capacity of at least 128 gbps non-blocking.						
	Switching through put of up to 41 million pps						
	The equipment must support more than 16K MAC address tables						
	The equipment must support up to 4K active VLAN						
	The equipment must support voice VLAN or equivalent						
	The equipment must support Jumbo Frames at least 10K bytes						
	The equipment must support SEP(Smart Ethernet Protection)or any equivalent ring protocol which can support less than 50ms failover time						
The equipment must support IGMP snooping v1/v2/v3							
	The equipment must support MLD snooping v1/v2						
	The equipment must support bidirectional ACL						
	The equipment must support automatic isolation of attack sources						
	The equipment must support the DAI (Dynamic ARP Inspection) feature						
	The equipment must support DHCP Snooping feature						
	Indicate if the equipment supports the IP Source Guard feature						
	The equipment must support SNMPv1/v2c/v3, Telnet, RMON, SSHv2						
	The equipment must support web management						
	It should support the operating temperature up to 0-45°C and can be operated in 10% -90 % RH						
	Switch should be EAL 3 Certified						
	Additional certificate: UL,FCC						
3	Managed Layer2 PoE Switch 8 port						
	The switch shall have 8 RJ-45 auto-negotiating 10/100/1000 PoE ports						
	The switch shall have 2 1000 BASE-X SFP port in addition to above						
	The equipment shall support IEEE 802.3af and 802.3at						
	The equipment must support mini USB						
	Shall support 1000/10000 Base-SX, LX, and LX Bi- directional SFP transceivers						
	The proposed equipment shall support high switching capacity of at least 20 gbps non-blocking.						

S
5
r any equivalent ring
rces
) feature
SSHv2
d can be operated in
ed Twisted Pair cable
vith Shutter -
TL Verification
to be submitted with
24 port configurations. k for 100% dust free 8-C.2-1 Component bliant, ISO 11801 Class
th – 1 Mtr.) Should be
TIA 568C.2-
sories
y, screw and other
<u> </u>

Submission of the Tender:

- 1. Sealed tenders in along with earnest money amounting to the value mentioned with each item in the tender document in form of demand draft only. The tenders should reach to undersigned latest by 28 March up to 2: OO P. M.
- 2. Tenders should be submitted either in person or by post in sealed envelopes on which the name of department, item quoted; tender number and date along with name and address of the firm will be written.
- 3. Tender cost (non refundable) (ii) Earnest Money (iii) Proof of PAN and TIN registration document (iv) Standing of the firm (v) Major supplies executed in recent past (vi) Authorized dealer certificate from OEM & Commercial terms and conditions. The rates must be quoted in both figures and words. Any overwriting and/or cutting must be duly attested failing which tenders are likely to be rejected.
- 4. Tender Cost and Earnest money amounting to the value given in the tender document for each Lab should also be submitted with the tender in the form of separate Demand Drafts drawn in favour of Director, BIET, Jhansi.
- 5. Earnest money and Cost of Tender in the form of Bank Drafts must be placed in a separate sealed envelope by writing "Earnest Money" on top of the envelope.
- 6. All the envelopes as above must be kept and sealed in a big envelop. The name of items quoted, enquiry/tender no and the opening date should invariably be mentioned on the top of big envelope.
- 7. Sealed tenders should be sent to Director, Bundelkhand Institute of Engineering and Technology (BIET) Campus, Kanpur Road, Jhansi -284128 latest by 28 March at 2: 00 P.M. . The sealed tenders may be dropped in the box kept at Store and Purchase section at BIET, Jhansi.

Terms and Conditions for Submission of Tenders

- 1. Firms will have to attach the list of customers to whom they have supplied similar items in previous year along with performance reports. Total turnover of the firm must be atleast 50 Lacs per year in the last three years consecutive years. A certificate to these effects should be issued from the sales tax department.
- 2. The descriptive and illustrative literature of the quoted item in original must accompany with the tender.
- 3. Tenders received after the closing date and stipulated time shall not be considered and the institute shall not be responsible for any postal delay.
- 4. Tender should be valid atleast for a period of 04 months. (04 Months from opening date of tender).
- 5. Our terms of payments are strictly after receipt of material and check at our institute regarding the quality and working experience.

- 6. The rates should be quoted FOR store, Bundelkhand Institute of Engineering and Technology (BIET) Campus, Kanpur Road, Jhansi -284128. Inclusive of all taxes/excise duty/fright/package/forwarding expenses/insurance etc.
- 7. Firm shall be solely responsible for defective supplies and losses caused to institute on account of defective supply.
- 8. Tenders brought personally should be dropped into tender box.
- 9. Suppliers must be registered with sales tax department and they should state registration no.
- 10. Quantity of items may increase or decrease or may be cancelled upto any extent.
- 11. No sales tax form "C" or "D" etc for concessional rate shall be provided by the institute.
- 12. All tender must be accompanied by EMD as mentioned in the tender document in the form of Demand Draft drawn in favour of Director, Bundelkhand Institute of Engineering and Technology (BIET) Jhansi.
- 13. Tenders deviating from above terms and conditions shall be rejected straight way without assigning any reason thereof.
- 14. EMD will be forfeited if the equipment's are not supplied in given time.
- 15. If required, the firms have to supply the sample of the items.
- 16. If certain equipment/material needs to be checked/tested at site of the firm, all expenditure (including TA/DA) of our expert members shall be borne by the firm concerned.
- 17. Penalty: The firm, which is not able to supply the equipment's/materials mentioned in purchase order by the due date, shall be liable to pay a penalty equal to 0.10 % of the value of purchase order per day. However this can be waived of by the Director under special circumstances.
- 18. **Payment:** Ninety percent of contract price shall be paid to the supplier after the delivery / commissioning / testing and completion of the work. The remaining 10% of contract price shall be paid to the supplier within 30 days after satisfactory working.
- 19. Director has every right to extend the due date if so required but all the tenders will be opened together.
- 20. Deduction of TDS (Income Tax & VAT) as per Govt. Rules.
- 21. The firm must provide original Guarantee/Warrantee card as issued by the manufacturer, as the case may be.
- 22. The Director BIET, Jhansi may reject any or all quotations/tenders without assigning any reasons.
- 23. All disputes subject to Jhansi Jurisdiction only.